RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/602,727 A

Source: I Fn/6

Date Processed by STIC: 1/18/07

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IFW16

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RAW SEQUENCE LISTING                    DATE: 01/18/2007
PATENT APPLICATION:  US/10/602,727A     TIME: 16:50:19

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(p5.6)

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    6 <120> TITLE OF INVENTION: Antibodies Against Protective Antigen
    8 <130> FILE REFERENCE: PF596P1N
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C--> 10 <141> CURRENT FILING DATE: 2003-06-25
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   11 <151> PRIOR FILING DATE: 2002-06-26
   13 <150> PRIOR APPLICATION NUMBER: 60/406,339
   14 <151> PRIOR FILING DATE: 2002-08-28
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   26 <151> PRIOR FILING DATE: 2003-01-06
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   35 <151> PRIOR FILING DATE: 2003-03-17
   37 <150> PRIOR APPLICATION NUMBER: 60/468,651
   38 <151> PRIOR FILING DATE: 2003-05-08
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   61 ctg gtt tct agc acc ggt aac ctg gaa gta atc cag gct gaa gtt aaa      96
   62 Leu Val Ser Ser Thr Gly Asn Leu Glu Val Ile Gln Ala Glu Val Lys
   63                 20                  25                  30
   65 cag gaa aac cgt ctg ctc aac gaa tct gag tct tcc tct cag ggc ctg     144
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71     50                    55                    60
73 act tct tcc acc acc ggc gac ctg tct att ccg tct tct gaa ctg gag      240
74 Thr Ser Ser Thr Thr Gly Asp Leu Ser Ile Pro Ser Ser Glu Leu Glu
75 65                    70                    75                    80
77 aac atc ccg tct gaa aac cag tac ttc cag tct gct atc tgg tct ggt      288
78 Asn Ile Pro Ser Glu Asn Gln Tyr Phe Gln Ser Ala Ile Trp Ser Gly
79                    85                    90                    95
81 ttc att aaa gtt aag aaa tct gac gaa tac acc ttc gct act tct gca      336
82 Phe Ile Lys Val Lys Lys Ser Asp Glu Tyr Thr Phe Ala Thr Ser Ala
83         100                   105                   110
85 gat aac cac gtt act atg tgg gta gac gac cag gaa gtt atc aac aaa      384
86 Asp Asn His Val Thr Met Trp Val Asp Asp Gln Glu Val Ile Asn Lys
87         115                   120                   125
89 gct tct aac tct aac aaa atc cgt ctg gaa aaa ggc cgt ctg tac cag      432
90 Ala Ser Asn Ser Asn Lys Ile Arg Leu Glu Lys Gly Arg Leu Tyr Gln
91     130                   135                   140
93 atc aag att caa tac caa cgt gaa aac ccg acc gag aaa ggt ctg gac      480
94 Ile Lys Ile Gln Tyr Gln Arg Glu Asn Pro Thr Glu Lys Gly Leu Asp
95 145                   150                   155                   160
97 ttc aaa ctg tac tgg acc gac tct cag aac aag aaa gaa gtt atc tct      528
98 Phe Lys Leu Tyr Trp Thr Asp Ser Gln Asn Lys Lys Glu Val Ile Ser
99                    165                   170                   175
101 tcc gac aac ctg cag ctg ccg gaa ctg aaa cag aaa tct tcc aac tct     576
102 Ser Asp Asn Leu Gln Leu Pro Glu Leu Lys Gln Lys Ser Ser Asn Ser
103         180                   185                   190
105 cgt aaa aag cgt tct act tct gct ggt ccg acc gtt ccg gac cgt gat     624
106 Arg Lys Lys Arg Ser Thr Ser Ala Gly Pro Thr Val Pro Asp Arg Asp
107         195                   200                   205
109 aac gac ggt att ccg gac tct ctg gaa gtt gaa ggc tac acc gta gac     672
110 Asn Asp Gly Ile Pro Asp Ser Leu Glu Val Glu Gly Tyr Thr Val Asp
111     210                   215                   220
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114 Val Lys Asn Lys Arg Thr Phe Leu Ser Pro Trp Ile Ser Asn Ile His
115 225                   230                   235                   240
117 gaa aag aaa ggt ctg acc aaa tac aaa tct tcc ccg gag aaa tgg tct     768
118 Glu Lys Lys Gly Leu Thr Lys Tyr Lys Ser Ser Pro Glu Lys Trp Ser
119                    245                   250                   255
121 acc gct tct gat ccg tac tct gac ttc gaa aaa gtt act ggt cgt atc     816
122 Thr Ala Ser Asp Pro Tyr Ser Asp Phe Glu Lys Val Thr Gly Arg Ile
123                260                   265                   270
125 gac aaa aac gtt tct ccg gaa gct cgt cac ccg ctg gta gca gcg tac     864
126 Asp Lys Asn Val Ser Pro Glu Ala Arg His Pro Leu Val Ala Ala Tyr
127         275                   280                   285
129 ccg atc gtt cac gtt gac atg gaa aac att atc ctg tct aaa aac gaa     912
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137 aac acc tct acc tct cgt act cac acc tct gaa gtt cac ggt aac gct     1008
138 Asn Thr Ser Thr Ser Arg Thr His Thr Ser Glu Val His Gly Asn Ala
139             325             330             335
141 gag gtt cac gct tct ttc ttt gac atc ggt ggc tct gta tct gct ggt     1056
142 Glu Val His Ala Ser Phe Phe Asp Ile Gly Gly Ser Val Ser Ala Gly
143             340             345             350
145 ttc tct aac tct aac tct tct acc gtt gca atc gac cac tct ctg tct     1104
146 Phe Ser Asn Ser Asn Ser Ser Thr Val Ala Ile Asp His Ser Leu Ser
147             355             360             365
149 ctg gct ggt gaa cgt acc tgg gct gaa act atg ggc ctg aac acc gca     1152
150 Leu Ala Gly Glu Arg Thr Trp Ala Glu Thr Met Gly Leu Asn Thr Ala
151     370             375             380
153 gac acc gct cgt ctg aac gct aac atc cgt tac gtt aac acc ggc acc     1200
154 Asp Thr Ala Arg Leu Asn Ala Asn Ile Arg Tyr Val Asn Thr Gly Thr
155 385             390             395             400
157 gct ccg atc tac aac gtt ctg ccg act acc tct ctg gta ctg ggt aaa     1248
158 Ala Pro Ile Tyr Asn Val Leu Pro Thr Thr Ser Leu Val Leu Gly Lys
159             405             410             415
161 aac cag acc ctg gca acc atc aaa gct aag gaa aac cag ctg tct cag     1296
162 Asn Gln Thr Leu Ala Thr Ile Lys Ala Lys Glu Asn Gln Leu Ser Gln
163             420             425             430
165 atc ctg gct ccg aac aac tac tat ccg tct aaa aac ctg gct ccg att     1344
166 Ile Leu Ala Pro Asn Asn Tyr Tyr Pro Ser Lys Asn Leu Ala Pro Ile
167     435             440             445
169 gca ctg aac gct cag gac gac ttc tct tcc acc ccg atc act atg aac     1392
170 Ala Leu Asn Ala Gln Asp Asp Phe Ser Ser Thr Pro Ile Thr Met Asn
171     450             455             460
173 tac aac cag ttc ctg gaa ctg gag aaa acc aaa cag ctg cgt ctg gac     1440
174 Tyr Asn Gln Phe Leu Glu Leu Glu Lys Thr Lys Gln Leu Arg Leu Asp
175 465             470             475             480
177 acc gac cag gtt tac ggt aac atc gct acc tac aac ttc gaa aac ggt     1488
178 Thr Asp Gln Val Tyr Gly Asn Ile Ala Thr Tyr Asn Phe Glu Asn Gly
179             485             490             495
181 cgt gtt cgt gta gac acc ggc tct aac tgg tct gaa gtt ctg ccg cag     1536
182 Arg Val Arg Val Asp Thr Gly Ser Asn Trp Ser Glu Val Leu Pro Gln
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185 atc cag gaa acc act gct cgt att atc ttc aac ggt aaa gac ctg aac     1584
186 Ile Gln Glu Thr Thr Ala Arg Ile Ile Phe Asn Gly Lys Asp Leu Asn
187     515             520             525
189 ctg gtt gaa cgt cgt atc gct gca gta aac ccg tct gac ccg ctg gaa     1632
190 Leu Val Glu Arg Arg Ile Ala Ala Val Asn Pro Ser Asp Pro Leu Glu
191     530             535             540
193 acc act aaa ccg gac atg acc ctg aaa gaa gct ctg aaa atc gct ttc     1680
194 Thr Thr Lys Pro Asp Met Thr Leu Lys Glu Ala Leu Lys Ile Ala Phe
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197 ggt ttc aac gaa ccg aac ggc aac ctg cag tac cag ggt aaa gat atc     1728
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203             580             585             590
205 aac cag ctg gct gaa ctg aac gct acc aac atc tac acc gtt ctg gac    1824
206 Asn Gln Leu Ala Glu Leu Asn Ala Thr Asn Ile Tyr Thr Val Leu Asp
207         595             600             605
209 aaa atc aag ctg aac gct aaa atg aac att ctg atc cgt gat aaa cgt    1872
210 Lys Ile Lys Leu Asn Ala Lys Met Asn Ile Leu Ile Arg Asp Lys Arg
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213 ttc cac tac gac cgt aac aac atc gct gtt ggt gct gac gaa tct gta    1920
214 Phe His Tyr Asp Arg Asn Asn Ile Ala Val Gly Ala Asp Glu Ser Val
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217 gtt aaa gaa gct cac cgt gag gtt atc aac tct tcc acc gaa ggt ctg    1968
218 Val Lys Glu Ala His Arg Glu Val Ile Asn Ser Ser Thr Glu Gly Leu
219             645             650             655
221 ctc ctg aac atc gac aaa gat att cgt aaa atc ctg tct ggt tac atc    2016
222 Leu Leu Asn Ile Asp Lys Asp Ile Arg Lys Ile Leu Ser Gly Tyr Ile
223             660             665             670
225 gtt gaa atc gaa gac acc gag ggc ctg aaa gaa gtt atc aac gac cgt    2064
226 Val Glu Ile Glu Asp Thr Glu Gly Leu Lys Glu Val Ile Asn Asp Arg
227         675             680             685
229 tac gat atg ctg aac atc tct tcc ctg cgt cag gac ggt aaa acc ttc    2112
230 Tyr Asp Met Leu Asn Ile Ser Ser Leu Arg Gln Asp Gly Lys Thr Phe
231         690             695             700
233 atc gac ttc aaa aag tac aac gat aaa ctg ccg ctg tac atc tct aac    2160
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235 705             710             715             720
237 ccg aac tac aaa gta aac gtt tac gct gtt acc aaa gaa aac acc att    2208
238 Pro Asn Tyr Lys Val Asn Val Tyr Ala Val Thr Lys Glu Asn Thr Ile
239             725             730             735
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243             740             745             750
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264         35              40              45
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272 Asn Ile Pro Ser Glu Asn Gln Tyr Phe Gln Ser Ala Ile Trp Ser Gly
273             85              90              95
275 Phe Ile Lys Val Lys Lys Ser Asp Glu Tyr Thr Phe Ala Thr Ser Ala
276             100             105             110
278 Asp Asn His Val Thr Met Trp Val Asp Asp Gln Glu Val Ile Asn Lys
279         115             120             125
281 Ala Ser Asn Ser Asn Lys Ile Arg Leu Glu Lys Gly Arg Leu Tyr Gln
282     130             135             140
284 Ile Lys Ile Gln Tyr Gln Arg Glu Asn Pro Thr Glu Lys Gly Leu Asp
285 145             150             155             160
287 Phe Lys Leu Tyr Trp Thr Asp Ser Gln Asn Lys Lys Glu Val Ile Ser
288             165             170             175
290 Ser Asp Asn Leu Gln Leu Pro Glu Leu Lys Gln Lys Ser Ser Asn Ser
291         180             185             190
293 Arg Lys Lys Arg Ser Thr Ser Ala Gly Pro Thr Val Pro Asp Arg Asp
294         195             200             205
296 Asn Asp Gly Ile Pro Asp Ser Leu Glu Val Glu Gly Tyr Thr Val Asp
297     210             215             220
299 Val Lys Asn Lys Arg Thr Phe Leu Ser Pro Trp Ile Ser Asn Ile His
300 225             230             235             240
302 Glu Lys Lys Gly Leu Thr Lys Tyr Lys Ser Ser Pro Glu Lys Trp Ser
303             245             250             255
305 Thr Ala Ser Asp Pro Tyr Ser Asp Phe Glu Lys Val Thr Gly Arg Ile
306         260             265             270
308 Asp Lys Asn Val Ser Pro Glu Ala Arg His Pro Leu Val Ala Ala Tyr
309         275             280             285
311 Pro Ile Val His Val Asp Met Glu Asn Ile Ile Leu Ser Lys Asn Glu
312     290             295             300
314 Asp Gln Ser Thr Gln Asn Thr Asp Ser Gln Thr Arg Thr Ile Ser Lys
315 305             310             315             320
317 Asn Thr Ser Thr Ser Arg Thr His Thr Ser Glu Val His Gly Asn Ala
318             325             330             335
320 Glu Val His Ala Ser Phe Phe Asp Ile Gly Gly Ser Val Ser Ala Gly
321         340             345             350
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324     355             360             365
326 Leu Ala Gly Glu Arg Thr Trp Ala Glu Thr Met Gly Leu Asn Thr Ala
327     370             375             380
329 Asp Thr Ala Arg Leu Asn Ala Asn Ile Arg Tyr Val Asn Thr Gly Thr
330 385             390             395             400
332 Ala Pro Ile Tyr Asn Val Leu Pro Thr Thr Ser Leu Val Leu Gly Lys
333             405             410             415
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336             420             425             430
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PATENT APPLICATION: US/10/602,727A   TIME: 16:50:20

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<u>Please Note:</u>
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
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Seq#:256; Xaa Pos. 14

VERIFICATION SUMMARY   DATE: 01/18/2007
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L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
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